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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/708,242	02/18/2004	Ling-Yi Liu	IFTP0002USA9	2241	
27765	7590 01/31/2006	EXAMINER			
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			RAY, GOPAL C		
P.O. BOX 506 MERRIFIELD, VA 22116			ART UNIT	PAPER NUMBER	
			2111		
				DATE MAILED: 01/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		10/708,242	LIU ET AL.	
		Examiner	Art Unit	
		Gopal C. Ray	2111	
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	with the correspondence a	ddress
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the reply attent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MC statute, cause the application to become a	IICATION. a reply be timely filed  DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on 1.  This action is <b>FINAL</b> . 2b)  Since this application is in condition for all closed in accordance with the practice uncondition.	This action is non-final. owance except for formal ma		ne merits is
Dispositi	on of Claims			
5) 6) 7)	Claim(s) <u>1-139</u> is/are pending in the applic 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-139</u> are subject to restriction ar	ndrawn from consideration.		
Applicati	on Papers			
10)	The specification is objected to by the Exar The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by th	accepted or b) objected to the drawing(s) be held in abeyanection is required if the drawin	ance. See 37 CFR 1.85(a).	, ,
Priority u	ınder 35 U.S.C. § 119			·
a)[	Acknowledgment is made of a claim for form All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But see the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee ireau (PCT Rule 17.2(a)).	Application No In received in this Nationa	ıl Stage
Attachmen	t(s)			
1)  Notic 2)  Notic 3)  Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date	) Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PT	O-152)

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1. Claims 1-139 are presented for examination. However, restriction to one of the following inventions is required under 35 U.S.C. § 121:

- I. Claims 1-108, drawn to "a computer system comprising a host entity for issuing I/O requests; a redundant external storage virtualization controller" along with other various limitations, classified in Class 710, Subclass 240.
- II. Claims 109-126 and 129-139, drawn to a "method for performing storage virtualization in a computer system having a first and a second external storage virtualization controller configured into a redundant SVC pair", Classified in Class 711, Subclass 112.
- III. Claims 127 and 128, drawn to a "computer-readable storage medium having a computer program code stored therein that is capable of performing the steps of a method", Classified in Class 711, Subclass 112.

Inventions I, II and III are related as apparatus, method for its practice and a computer program code for operating the method. They fall under different categories of invention. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed in claims 109-126 and 129-139 can be used in another materially different apparatus such as "a system for fault recovery by accessing redundant stored data", Classified in Class 714, Subclass 6. Since the computer program code claimed in claims 127 and 128 is for operating the method, similar arguments are applicable to show the distinctness of inventions I and III.

2. Because inventions I and (II & III) are distinct for the reasons given above, have acquired a separate status in the art as shown by their different classification and

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requires extra search and consideration, restriction of claims (1-108) and (109 -139) for examination purposes is proper.

- 3. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 4. Applicant should cancel the claims of non-elected inventions. However, applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gopal C. Ray whose telephone number is (571) 272-3631. The examiner can normally be reached on Monday Friday from 8:00 AM 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart, can be reached on (571) 272-3632. The fax phone number for this Group is (571) 273-8300.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [mark.rinehart@uspto.gov].

All Internet e-mail communications will be made of record in the application file.

PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record

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includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC central telephone number is (571) 272-2100. Moreover, information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lastly, paper copies of cited U.S. Patents and Patent Application Publications ceased to be mailed to applicants with office actions as of June 2004. Paper copies of Foreign Patents and Non-Patent Literature will continue to be included with office actions. These cited U.S. Patents and Patent Application Publications are available for download via Office's PAIR. As an alternate source, all U.S. Patents and Patent Application Publications are available on the USPTO web site (<a href="www.uspto.gov">www.uspto.gov</a>), from the office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at <a href="http://www.uspto.gov/ebc/index.html">http://www.uspto.gov/ebc/index.html</a> or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. Patent or Patent Application Publications will not be granted.

GOPAL C. RAY
PRIMARY EXAMINER
GROUP 2300

Sopal C. Kay